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NEWS 5 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 6 SEP 11 CA/CAplus enhanced with more pre-1907 records
NEWS 7 SEP 21 CA/Caplus fields enhanced with simultaneous left and right
                 truncation
NEWS 8 SEP 25 CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 9 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11 SEP 28 CEABA-VTB classification code fields reloaded with new
                 classification scheme
NEWS 12 OCT 19 LOGOFF HOLD duration extended to 120 minutes
NEWS 13 OCT 19 E-mail format enhanced
NEWS 14 OCT 23 Option to turn off MARPAT highlighting enhancements available
NEWS 15 OCT 23 CAS Registry Number crossover limit increased to 300,000 in
                 multiple databases
NEWS 16 OCT 23 The Derwent World Patents Index suite of databases on STN
                 has been enhanced and reloaded
NEWS 17 OCT 30 CHEMLIST enhanced with new search and display field
NEWS 18 NOV 03 JAPIO enhanced with IPC 8 features and functionality
NEWS 19
         NOV 10 CA/CAplus F-Term thesaurus enhanced
NEWS 20 NOV 10 STN Express with Discover! free maintenance release Version
                 8.01c now available
NEWS 21 NOV 13 CA/CAplus pre-1967 chemical substance index entries enhanced
                 with preparation role
NEWS 22 NOV 20 CAS Registry Number crossover limit increased to 300,000 in
                 additional databases
NEWS 23 NOV 20 CA/Caplus to MARPAT accession number crossover limit increased
                 to 50,000
         NOV 20 CA/CAplus patent kind codes will be updated
NEWS 24
NEWS 25
         DEC 01 CAS REGISTRY updated with new ambiguity codes
NEWS 26
         DEC 11 CAS REGISTRY chemical nomenclature enhanced
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS
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=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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Property values tagged with IC are from the ${\tt ZIC/VINITI}$ data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 DEC 2006 HIGHEST RN 915277-53-1 DICTIONARY FILE UPDATES: 12 DEC 2006 HIGHEST RN 915277-53-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

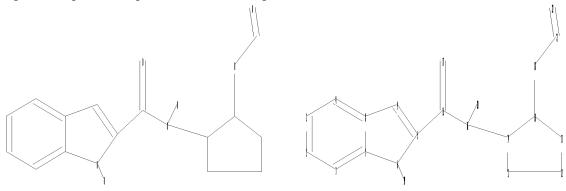
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=>

Uploading C:\Program Files\Stnexp\Queries\10567798.str



chain nodes :

15 16 17 18 19 20 21 22

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

5-15 6-19 10-18 14-16 15-16 15-17 16-20 18-21 21-22

ring bonds :

 $1 - 2 \quad 1 - 7 \quad 2 - 3 \quad 3 - 4 \quad 4 - 8 \quad 5 - 6 \quad 5 - 9 \quad 6 - 7 \quad 7 - 8 \quad 8 - 9 \quad 10 - 11 \quad 10 - 14 \quad 11 - 12 \quad 12 - 13 \quad 13 - 14$

exact/norm bonds :

5-6 6-7 10-18 14-16 15-16 15-17 18-21 21-22

exact bonds :

5-9 5-15 6-19 8-9 10-11 10-14 11-12 12-13 13-14 16-20

normalized bonds :

1-2 1-7 2-3 3-4 4-8 7-8

isolated ring systems :

containing 1 : 10 :

Match level :

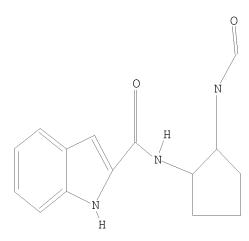
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 11:44:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 52 TO ITERATE

100.0% PROCESSED 52 ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 608 TO 1472 PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> S L1 SSS FULL

FULL SEARCH INITIATED 11:44:46 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1167 TO ITERATE

100.0% PROCESSED 1167 ITERATIONS 92 ANSWERS

SEARCH TIME: 00.00.01

L3 92 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10567798a.str

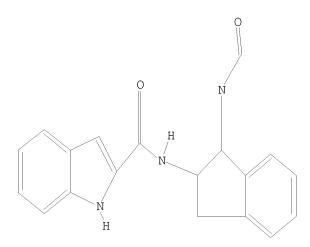
chain nodes : 13 14 15 16 17 18 19 20 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 22 23 24 25 26 27 chain bonds : 5-13 6-17 10-16 12-14 13-14 13-15 14-18 16-19 19-20ring bonds : exact/norm bonds : 5-6 6-7 10-16 12-14 13-14 13-15 16-19 19-20 exact bonds : 5-9 5-13 6-17 8-9 10-24 10-12 11-23 11-12 14-18 normalized bonds : $1-2 \quad 1-7 \quad 2-3 \quad 3-4 \quad 4-8 \quad 7-8 \quad 22-23 \quad 22-27 \quad 23-24 \quad 24-25 \quad 25-26 \quad 26-27$ isolated ring systems : containing 1 : 10 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom

L4 STRUCTURE UPLOADED

=> d 14 L4 HAS NO ANSWERS L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 11:46:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS 4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 5 TO 234
PROJECTED ANSWERS: 4 TO 200

L5 4 SEA SSS SAM L4

=> s 14 sss full

FULL SEARCH INITIATED 11:46:24 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 107 TO ITERATE

100.0% PROCESSED 107 ITERATIONS 67 ANSWERS

SEARCH TIME: 00.00.01

L6 67 SEA SSS FUL L4

=> FIL HOME

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
334.76
334.97

FILE 'HOME' ENTERED AT 11:46:44 ON 13 DEC 2006

=> file hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.21 335.18

FILE 'HCAPLUS' ENTERED AT 11:46:59 ON 13 DEC 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 13 Dec 2006 VOL 145 ISS 25 FILE LAST UPDATED: 12 Dec 2006 (20061212/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

T.1

(FILE 'HOME' ENTERED AT 11:43:54 ON 13 DEC 2006)

FILE 'REGISTRY' ENTERED AT 11:44:24 ON 13 DEC 2006

STRUCTURE UPLOADED

L2 2 S L1

L3 92 S L1 SSS FULL

L4 STRUCTURE UPLOADED

L5 4 S L4

L6 67 S L4 SSS FULL

FILE 'HOME' ENTERED AT 11:46:44 ON 13 DEC 2006

FILE 'HCAPLUS' ENTERED AT 11:46:59 ON 13 DEC 2006

=> s 13

L7 9 L3

=> s 16

L8 3 L6

=> d 17 ibib abs hitstr tot

L7 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:78244 HCAPLUS

DOCUMENT NUMBER: 142:176829

TITLE: A preparation of diamine derivatives, useful as FXa

inhibitors (anticoagulants)

INVENTOR(S): Ohta, Toshiharu; Komoriya, Satoshi; Yoshino,

Toshiharu; Uoto, Kouichi; Nakamoto, Yumi; Naito,

Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu; Kanno,

Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji; Nagamochi, Masatoshi; Kobayashi, Syozo; Ono, Makoto

Daiichi Pharmaceutical Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 276 pp., Cont.-in-part of U.S.

Ser. No. 481,269.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO. KIND	DATE	APPLICATION NO.	DATE		
US 2005020645 A1 ZA 2003009866 A US 2004134568 A1 ZA 2004000926 A PRIORITY APPLN. INFO.:	20050127 20041220 20040715 20050204	US 2004-773344 ZA 2003-9866 US 2003-481269 ZA 2004-926 JP 2001-187105 JP 2001-243046 JP 2001-311808 JP 2001-398708 US 2003-481269 SE 2001-2233 WO 2002-SE939	A A A A A A W	20040209 20030130 20031219 20040204 20010620 20010809 20011009 20011228 20031219 20010621 20020517	

OTHER SOURCE(S): MARPAT 142:176829

GΙ

AB The invention relates to a preparation of diamine derivs. of formula Q1-Q2-T-N(R1)-Q3-N(R2)-T1-Q4 [wherein: R1 and R2 are independently selected from H, OH, alkyl, or alkoxy; Q1 is (un)saturated 5- or 6-membered cyclic hydrocarbon, 5- to 7-membered heterocyclic group, or (bi/tri)cyclic fused hydrocarbon, etc.; Q2 is a single bond or bivalent (hetero)cyclic

ΙΤ

RM

group; Q3 is a bivalent (hetero)cyclic group; Q4 is (hetero)aryl, arylalkynyl, or heteroalkenyl, etc.; T is C(0) or S(0); T1 is C(0), C(0)-C(0), SO2, or C(0)-C(0)-NH, etc.], useful as FXa inhibitors (anticoagulants). The invention compds. are useful as agents for preventing and/or treating cerebral infarction, cerebral embolism, myocardial infarction, angina pectoris, pulmonary infarction, pulmonary embolism, Buerger's disease, deep venous thrombosis, disseminated intravascular coaqulation syndrome, and thrombus, etc. For instance, diamine derivative I (IC50 = 86 nM) was prepared via amidation of 5-chloroindole-2-carboxylic acid by thiazolopyridine derivative II. 365993-88-0P 365994-28-1P 365994-29-2P 365994-32-7P 365994-36-1P 480447-05-0P 480447-06-1P 480447-07-2P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diamine derivs. useful as anticoagulants) 365993-88-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-28-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

● HC1

RN 365994-29-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-32-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylcyclopropyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-36-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-ethyl-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-05-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 480447-06-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-07-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-y1)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-58-7 HCAPLUS CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H- indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI)
 (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365998-53-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:802720 HCAPLUS

DOCUMENT NUMBER: 141:314159

TITLE: Preparation of lactam-containing cyclic diamines and

derivatives as factor Xa inhibitors for treating

thromboembolic disorders

INVENTOR(S): Qiao, Jennifer X.; Wang, Tammy C.; Wang, Gren Z.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 260 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.					KIND DATE			APPLICATION NO.							DATE			
WO	2004	0826	 87		A1		2004	0930		WO 2	2004-		20040317						
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,		
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	KΖ,	LC,		
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	ΝA,	ΝI,		
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,		
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW		
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		BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,		
		ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,		
		SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,		
		TD,	ΤG																
US	2004	2044	54		A1	A1 20041014				US 2004-801469						20040316			
EP	1603	572			A1		2005	20051214		EP 2	2004-	7575	41		2	0040	317		
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,		
		ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	ΑL,	TR,	BG,	CZ,	EE,	HU,	PL,	SK		
JP	2006	5207	90		Τ2		2006	0914		JP 2	2006-	5072	54		2	0040	317		
PRIORIT	Y APP	LN.	INFO	.:						US 2	2003-	4557.	33P]	P 2	0030.	318		
								US 2003-508232P				32P]	P 20031002					
									US 2004-801469					Ž	A 2	0040	316		
									WO 2004-US8088					Ţ	W 2	0040	317		
~																			

OTHER SOURCE(S): MARPAT 141:314159

GΙ

AB Title compds. of formula G-G1-M-Z-A-B [wherein M = central ring selected from (un)substituted optionally fused cyclopentane, or cyclohexane, (un)substituted tetrahydropyran, piperidine, piperidin-2-one, pyrrolidine,

etc,; G = benzofused ring; G1 = (CH2)1-5 and derivs., (un)substitutedCH2:CH2, C(:O), NH, NHCO SO2NH, SO2NHCO, all of the above optionally substituted on one or both ends with alkylene groups, etc., with provisos; Z = NHCO, CONH, Z = (CH2)1-5 and derivs., (un)substituted NHCO, CONH, CO, NHC(:S)NH, S, SO, SO2, SONH, SO2NH, all of the above optionally substituted on one or both ends with alkylene groups, etc.; A = (un) substituted carbo- or heeterocycle; B = lactam or sulfam bound to A ring through an optional linking group attached to the N, pharmaceutically acceptable salts] were prepared as inhibitors of trypsin-like serine proteases, specifically factor Xa, for treating thromboembolic disorders. For example, I was prepared by reductive amination of 4-(2-oxo-2H-pyridin-1yl)benzaldehyde (preparation given) with (1R,2S)-5-Chlorothiophene-2-carboxylic acid (2-aminocyclopentyl) amide in CH2Cl2 in the presence of NaBH(OAc)3/AcOH. Selected invention compds. displayed Ki ≤ 10 μM in a spectrophotometrical assay using purified human factor Xa. 766552-51-6P, (1S,2R)-5-Chloro-1H-indole-2-carboxylic acid ΤТ [2-[4-(2-oxo-2H-pyridin-1-yl)benzoylamino]cyclopentyl]amide 766552-52-7P, (1R,2S)-5-Chloro-1H-indole-2-carboxylic acid [2-[4-(2-oxo-2H-pyridin-1-yl)benzoylamino]cyclopentyl]amide 766552-98-1P, 6-Chloro-1H-indole-2-carboxylic acid [(1R, 2S)-2-[4-(2-oxo-2H-pyridin-1-yl)benzoylamino]cyclopentyl]amide RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (factor Xa inhibitor; preparation of lactam-containing cyclic diamines and derivs. as factor Xa inhibitors for treating thromboembolic disorders) RN 766552-51-6 HCAPLUS CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1S,2R)-2-[[4-(2-oxo-1(2H)-1)]]

Absolute stereochemistry.

RN 766552-52-7 HCAPLUS
CN 1H-Indole-2-carboxamide, 5-chloro-N

1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2S)-2-[[4-(2-oxo-1(2H)-pyridinyl)benzoyl]amino]cyclopentyl]- (9CI) (CA INDEX NAME)

pyridinyl)benzoyl]amino]cyclopentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

11328929

RN 766552-98-1 HCAPLUS

CN 1H-Indole-2-carboxamide, 6-chloro-N-[(1R,2S)-2-[[4-(2-oxo-1(2H)-pyridinyl)benzoyl]amino]cyclopentyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:565212 HCAPLUS

DOCUMENT NUMBER: 141:106461

TITLE: Preparation of heterocyclyl moiety-containing diamine

derivatives as factor Xa inhibitors

INVENTOR(S): Ohta, Toshiharu; Komoriya, Satoshi; Yoshino,

Toshiharu; Uoto, Kouichi; Nakamoto, Yumi; Naito,

Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu; Kanno,

Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji;

Nagamochi, Masatoshi; Kobayashi, Syozo; Ono, Makoto

PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 1156 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.						KIND DATE					ICAT	DATE						
WO	2004	 0587	 15		A1		2004	 0715		WO 2003-JP16783					20031225			
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		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,	GE,	
		GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	ΝI,	NO,	NZ,	
		OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,	TM,	
		TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	${ m MZ}$,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	ΑZ,	
		BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
		ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
		TR,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	$\mathrm{ML}_{m{\prime}}$	MR,	ΝE,	SN,	TD,	ΤG
	2511								CA 2003-2511493									
									AU 2003-292828									
EP													20031225					
	R:						,	FR,						,			PT,	
			•	•		•	,	MK,			,	,		,				
	1751																	
	2006				A1		2006	1109										
PRIORIT	RIORITY APPLN. INFO.:														A 2			
													63		A 2			
										WO 2	003-	JP16	783		W 2	0031	225	
OTHER S	OTHER SOURCE(S):					MARPAT 141:106461												

GΙ

The title compds. Q1-Q2-T0-N(R1)-Q3-N(R2)-T1-Q4 [R1 and R2 represent each hydrogen, etc.; Q1 represents optionally substituted and saturated or unsatd. 5- to 6-membered cyclic hydrocarbyl, etc.; Q2 represents a single bond, etc.; Q3 represents I (wherein Q5 represent C1-8 alkylene, etc.; R3, R4 = H, alkyl, etc.; further detail on R3 and R4 is given); and T0 and T1 represent each carbonyl, etc.; Q4 represents (un)substituted aryl, etc.] its salt, solvates thereof or N-oxides of the same are prepared These compds. are useful as preventives and/or remedies for cerebral infarction, cerebral embolism, myocardial infarction, angina, pulmonary infarction, pulmonary embolism, Burger's disease, multiorgan dysfunction syndrome (MODS), thrombosis in extracorporeal circulation and blood coagulation in blood collection, etc. Compds. of this invention in vitro showed IC50 values of 0.72 nM to 86 nM against human factor Xa.

IT 365993-88-0P 365994-28-1P 365994-29-2P 365994-32-7P 365994-36-1P 480447-05-0P 480447-06-1P 480447-07-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(preparation of heterocyclyl moiety-containing diamines as factor ${\tt Xa}$ inhibitors)

RN 365993-88-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-y1)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-28-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

11328929

RN 365994-29-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-32-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylcyclopropyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-36-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-

yl)carbonyl]amino]cyclopentyl]-5-ethyl-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-05-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-y1)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-06-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

11328929

Relative stereochemistry.

● HCl

RN 480447-07-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-y1)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

IT 365998-51-2P 365998-52-3P 365998-53-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterocyclyl moiety-containing diamines as factor ${\tt Xa}$ inhibitors)

RN 365998-51-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-52-3 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-53-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

2003:508525 HCAPLUS ACCESSION NUMBER:

139:85363 DOCUMENT NUMBER:

TITLE: Preparation of diamine derivatives as factor Xa

inhibitors and anticoagulants, and their use for

treatment of diseases

INVENTOR(S): Ota, Toshiharu; Komoritani, Satoshi; Yoshino,

Toshiharu; Uoto, Koichi; Nakamoto, Yumi; Naito,

Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu; Kanno,

Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji;

Nagamochi, Masatoshi; Kobayashi, Shozo

PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan SOURCE:

Jpn. Kokai Tokkyo Koho, 284 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 2003183286 PRIORITY APPLN. INFO.:	A2	20030703	JP 2001-398959 JP 2001-311909 A	20011228 20011009		
OTHER SOURCE(S): GI	MARPAT	139:85363				

$$A = \frac{R^3}{\sqrt{1-R^4}} R^4$$

AΒ The derivs. are Q1Q2T0NR1Q3NR2R1Q4 [Q1 = (substituted) 5- to 6-membered cyclic hydrocarbyl, (substituted) 5- to 7-membered heterocyclyl, etc; Q2 =single bond, (substituted) 5- to 6-membered cyclic hydrocarbylene, etc.; Q3 = A; Q4 = (substituted) aryl, (substituted) arylalkenyl, etc.; Q5 =C1-8 alkylene, C2-8 alkenylene, etc.; T0 = (thio)carbonyl; T1 = carbonyl,

sulfonyl, etc.; R1, R2 = H, OH, alkyl, alkoxy; R3, R4 = H, OH, alkyl, etc.], their salts, solvates, or N-oxides. Thus, (±)-trans-N-[(5methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl)carbonyl]-1,2cyclopentanediamine HCl salt was amidated with 5-chloroindole-2-carboxylic acid to give I which inhibited human factor Xa with IC50 86 nM in vitro. 365993-88-0P 365994-28-1P 365994-29-2P ΙT 365994-32-7P 365994-36-1P 480447-05-0P 480447-07-2P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of diamine derivs. as factor Xa inhibitors for anticoagulants) RN 365993-88-0 HCAPLUS CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-R)])]yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-28-1 HCAPLUS
CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

● HC1

RN 365994-29-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-32-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylcyclopropyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-36-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-ethyl-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-05-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 480447-07-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

IT 480447-06-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of diamine derivs. as factor Xa inhibitors for anticoagulants)

RN 480447-06-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

L7 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:261670 HCAPLUS

DOCUMENT NUMBER: 138:287666

TITLE: Preparation of heteroaryllactams as Factor Xa

inhibitors

INVENTOR(S): Pinto, Donald; Quan, Mimi; Orwat, Michael; Li,

Yun-Long; Han, Wei; Qiao, Jennifer; Lam, Patrick;

Koch, Stephanie

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 441 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.					KIND DATE					APPL	ICAT		DATE						
WO	WO 2003026652		A1	A1 20030403				WO 2	002-		20020917								
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,		
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,		
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,		
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,		
		UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW								
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		KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	ВG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,		
		FΙ,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ВJ,	CF,		
		CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG					
CA	2461	202			AA		2003	0403		CA 2	002-	2461.	202		2	0020	917		
US	2003	1911	15		A1		2003	1009		US 2	002-	2451	22		20020917				
US	6967	208			В2		2005	1122											
EP	1427	415			A1		2004	0616		EP 2002-775843						20020917			

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
    BR 2002012726
                         Α
                               20040803
                                           BR 2002-12726
                                                                  20020917
    CN 1578660
                         Α
                               20050209
                                           CN 2002-821537
                                                                  20020917
    JP 2005507889
                         Τ2
                               20050324
                                           JP 2003-530289
                                                                  20020917
                         A2
    HU 200402463
                               20050428
                                          HU 2004-2463
                                                                  20020917
    ZA 2004002184
                         A
                               20050503
                                          ZA 2004-2184
                                                                  20040318
    NO 2004001163
                        Α
                               20040503
                                           NO 2004-1163
    US 2004220174
                        A1
                              20041104
                                          US 2004-850587
                                                                  20040520
    US 6989391
                        В2
                              20060124
    US 2005124602
                        A1
                               20050609
                                          US 2004-970781
                                                                  20041021
    US 7005435
                        В2
                               20060228
    US 2005171085
                        A1
                               20050804
                                          US 2004-970807
                                                                  20041021
    US 6995172
                        В2
                              20060207
    US 2005261287
                        A1
                                           US 2005-154972
                                                                  20050616
                              20051124
    US 2005267097
                        A1
                                           US 2005-198801
                              20051201
                                                                  20050805
PRIORITY APPLN. INFO.:
                                           US 2001-324165P
                                                             P 20010921
                                           US 2002-402317P
                                                             P 20020809
                                           US 2002-245122
                                                              A3 20020917
                                           WO 2002-US29491
                                                              W 20020917
                                           US 2004-850587
                                                              A3 20040520
                                           US 2004-970807
                                                              A1 20041021
OTHER SOURCE(S):
                        MARPAT 138:287666
    P4PMM4 [M = 3-10 membered (substituted) (unsatd.) carbocyclyl, 4-10
    membered heeterocyclyl; P = null, 5-7 membered (substituted) (unsatd.)
    carbocyclyl, heterocyclyl fused to ring M; 1 of P4, M4 = ZAB, the other =
    G1G; G = (benzo-, pyrido-, pyrimido-, pyrazino-, or pyridazino-fused)
     (substituted) (unsatd.) 5-6 membered (hetero)cyclyl; G1 = null,
     (CR3R3a)1-5, etc.; R3, R3a = H, Me, Et, Pr, Ph, PhCH2, etc.; Z = bond,
     (CR3R3e)1-4, etc.; R3e = H, SO2NHR3, SO2N(R3)2, COR3, (substituted) alkyl,
    alkenyl, alkynyl, etc.; A = (substituted) 3-10 membered carbocyclyl, 5-12
    membered heterocyclyl; Z = XNQ; X = null, CO, SO, SO2, etc.; NQ = 4-8
    membered mono- or bicyclic (substituted) (unsatd.) ring containing a CO or SO2
    group adjacent to the N atom; with provisos], were prepared Thus,
    6-(4-iodophenyl)-3-methoxy-1-(4-methoxyphenyl)-1,4,5,6-tetrahydro-7H-
    pyrazolo[3,4-c]pyridin-7-one (preparation given), \delta-valerolactam, K2CO3,
    and CuI were refluxed in Me2SO to give 15% 3-methoxy-1-(4-methoxyphenyl)-6-
    [4-(2-oxo-1-piperidinyl)phenyl]-1,4,5,6-tetrahydro-7H-pyrazolo[3,4-
    c]pyridin-7-one. Several title compds. inhibited Factor Xa with
    IC50\leq 10 \muM.
    503613-88-5P, 5-Chloro-N-(2-[[4-(2-oxopiperidin-1-
    yl)benzoyl]amino]cyclopentyl)-1H-indole-2-carboxamide 503613-89-6P
     , 5-Chloro-N-(2-[[4-(2-oxo-2H-pyridin-1-yl)benzoyl]amino]cyclopentyl)-1H-
    indole-2-carboxamide
    RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (claimed compound; preparation of heteroaryllactams as Factor Xa inhibitors)
RN
    503613-88-5 HCAPLUS
    1H-Indole-2-carboxamide, 5-chloro-N-[2-[[4-(2-oxo-1-
CN
```

piperidinyl)benzoyl]amino]cyclopentyl]- (9CI) (CA INDEX NAME)

503613-89-6 HCAPLUS RN

1H-Indole-2-carboxamide, 5-chloro-N-[2-[[4-(2-oxo-1(2H)-1)]]CN pyridinyl)benzoyl]amino]cyclopentyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS 1 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:154422 HCAPLUS

138:205076 DOCUMENT NUMBER:

Preparation of diamines as factor Xa inhibitors TITLE: INVENTOR(S): Ohta, Toshiharu; Komoriya, Satoshi; Yoshino, Toshiharu; Uoto, Kouichi; Nakamoto, Yumi; Naito,

Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu; Kanno,

Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji;

Nagamochi, Masatoshi; Kobayashi, Syozo; Ono, Makoto

PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 847 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

P <i>P</i>	PATENT NO.						KIND DATE			APP	LICAT		DATE						
WC	2003	 0163	 02		A1 20030227					WO	2002-	 JP81		20020808					
	W:			AI.		AT.	AU.	A7.		-	, BG,	-	-	B7.					
	***										, EE,					GE,	GH,		
											, KG,						LR,		
											, MW,					•	,		
											, SL,				TR,				
												10,	111,	T 1/1	11,	11,	14,		
	DET	•	•	,	•		VN,	•			•		C7 B 4	F7 T-7	70 000	DE	DC		
	KW:										, TZ,								
											, GB,								
		•	SE,			BF,	ВЈ,	CF,	CG,	CI	, CM,	GA,	GN,	GQ,	GW,	ML,	MR,		
		ΝE,		TD,															
WC	2003				A1		2003				2002-			20020320					
	W:										, BG,						CN,		
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC	, EE,	ES,	FΙ,	GB,	GD,	GE,	GH,		
		GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	KE	, KG,	KΡ,	KR,	KΖ,	LC,	LK,	LR,		
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN	, MW,	MX,	${ m MZ}$,	NO,	NΖ,	OM,	PH,		
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK	, SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,		
							YU,		ZM,										
	RW:	GH,	GM,	ΚE,	LS,	MW,	MΖ,	SD,	SL,	SZ	, TZ,	UG,	ZM,	ZW,	ΑT,	BE,	CH,		
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE	, IT,	LU,	MC,	NL,	PT,	SE,	TR,		
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ	, GW,	ML,	MR,	NE,	SN,	TD,	ΤG		
WC	WO 2003000680				A1		2003				2002-					0020			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB	, BG,	BR,	BY,	BZ,	CA,	CH,	CN,		
											, EE,						GH,		
											, KG,						LR,		
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											, SL,						TZ,		
		UA,					YU,					,	,	,	,	,	,		
	RW.	,									, TZ,	HG.	7.M .	7. W	ΑТ	BE,	CH,		
	1000										, IT,					,	TR,		
											, GW,								
C7	2456		ъо,	CL,	AA		2003				2002-			111,					
	1415				A1		2004				2002			20020808 20020808					
	R:		BF	СН		DΚ					, IT,			NIT.					
	11.										, TR,					110,	,		
DE	2002			шт,	Δν,	тт,	2004				2002-			, 21		0020	909		
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PRIORII	RIORITY APPLN. INFO.:														_				
											2001-					0011			
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											2001-				A 20010620				
OTHER 9	OURCE	(S) ·			MAR	РАТ	138:	20501	76	WO	2002-	JF81	19		W 2	0020	808		
	THER SOURCE(S):							_ 000											

GT

$$R^3$$
 Q^5 R^4

AB The title compds. Q1-Q2-T0-N(R1)-Q3-N(R2)-T1-Q4 [R1 and R2 represent each hydrogen, etc.; Q1 represents optionally substituted, saturated or unsatd. 5-or 6-membered hydrocarbyl, etc.; Q2 represents a single bond, etc.; Q3 represents I wherein Q5 represents C1-8 alkylene, etc.; R3, R4 represent each hydrogen, alkyl, etc.; Q4 represents (un)substituted aryl, etc.; and T0 and T1 represent each carbonyl, etc.] are prepared I are useful as antithrombotics, etc. Several compds. of this invention showed IC50 values of 1.2 nM to 3.5 nM against factor Xa.

IT 365993-88-0P 365994-28-1P 365994-29-2P 365994-32-7P 365994-36-1P 480447-05-0P 480447-06-1P 480447-07-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diamines as factor Xa inhibitors)

RN 365993-88-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-28-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-29-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-32-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylcyclopropyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-36-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-ethyl-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-05-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 480447-06-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-07-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365998-51-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-52-3 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-53-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:5949 HCAPLUS

DOCUMENT NUMBER: 138:89801

TITLE: Preparation of heterocyclic moiety-containing diamine

derivatives as FXa inhibitors

INVENTOR(S): Ohta, Toshiharu; Komoriya, Satoshi; Yoshino,

Toshiharu; Uoto, Kouichi; Nakamoto, Yumi; Naito,

Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu; Kanno,

Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji;

Nagamochi, Masatoshi; Kobayashi, Syozo; Ono, Makoto

PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 811 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

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WO	2003	0006	80		A1		20030103			WO 2				20020620				
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ωo	2003			O1 /	A1		2003			WO 2				1111		0020		
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	•••		CR,	_						EC,							GH,	
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		LS,	LT,	LU,						MN,						OM,	PH,	
		PL,	PT,	- '		SD,				SK,							TZ,	
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	1405852				A1		2004			EP 2				20020620				
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BR	2002			·	A		2004		·	BR 2			2	0020	620			
CN	1826	333			А		2006			CN 2	002-	8160		2	0020	620		
CA	2456	841			AA		2003			CA 2	002-		2	0020	808			
WO	2003	0163	02		A1		2003	0227		WO 2	002-	JP81		20020808				
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		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	
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		PT,	SE,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	
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ΕP	1415				A1		2004			EP 2					0020			
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	2002	А		2004	0629		BR 2			20020808								
	A 2003009866						2004	1220		ZA 2			20030130					
	2003				Α		2004			NO 2						0031		
	2004				А		2005			ZA 2					20040204			
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US	2005		A1	20051103 US 2004-481629							29	20040601						

PRIORITY APPLN.	INFO.:	JP	2001-187105	А	20010620
		JΡ	2001-243046	A	20010809
		JP	2001-311808	A	20011009
		JP	2001-398708	A	20011228
		WO	2002-JP2683	W	20020320
		WO	2002-JP6141	W	20020620
		WO	2002-JP8119	M	20020808

OTHER SOURCE(S): MARPAT 138:89801 GI

R³ Q⁵ R⁴

AB The title compds. Q1-Q2-T0-N(R1)-Q3-N(R2)-T1-Q4 [R1 and R2 represent each hydrogen, etc.; Q1 represents optionally substituted, saturated or unsatd. 5- or 6-membered hydrocarbyl, etc.; Q2 represents a single bond, etc.; Q3 represents I (wherein Q5 represents C1-8 alkylene, etc.; R3, R4 represent each hydrogen, etc.); Q4 represents (un)substituted aryl, etc.; and T0 and T1 represent each carbonyl, etc.] are prepared These compds. are useful as preventives and/or remedies for brain infarction, cerebral embolism, myocardial infarction, angina, thrombosis, etc. Compds. of this invention in vitro showed IC50 values of 1.4 nM to 92 nM against human FXa.

IT 365993-88-0P 365994-28-1P 365994-29-2P
 365994-32-7P 365994-36-1P 480447-05-0P
 480447-06-1P 480447-07-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclic moiety-containing diamine derivs. as ${\sf FXa}$ inhibitors)

RN 365993-88-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-28-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-29-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-32-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylcyclopropyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-36-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-ethyl-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 480447-05-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-06-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 480447-07-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

IT 365998-51-2P 365998-52-3P 365998-53-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterocyclic moiety-containing diamine derivs. as FXa inhibitors)

RN 365998-51-2 HCAPLUS

CN Thiazolo[5, 4-c]pyridine-2-carboxamide, N-[(1R, 2R, 4S)-2-[[(5-chloro-1H-1R) + (1R) + (1

indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-52-3 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-53-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:5928 HCAPLUS

DOCUMENT NUMBER: 138:73271

TITLE: Preparation of N, N'-bis(heterocyclic

acyl)cycloalkanediamine and heterocyclediamine
derivatives as inhibitors of activated blood

coagulation factor X (factor Xa)

INVENTOR(S): Ohta, Toshiharu; Komoriya, Satoshi; Yoshino,

Toshiharu; Uoto, Kouichi; Nakamoto, Yumi; Naito,

Hiroyuki; Mochizuki, Akiyoshi; Nagata, Tsutomu; Kanno,

Hideyuki; Haginoya, Noriyasu; Yoshikawa, Kenji; Nagamochi, Masatoshi; Kobayashi, Syozo; Ono, Makoto

PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 788 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

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WO 2003000657					A1 20030103				WO 2	 002-		20020320					
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20030227 WO 2002-JP8119
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PRIORITY APPLN. INFO.:
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WO 2002-JP8119 W 20020808
                                                                 W 20020620
OTHER SOURCE(S): MARPAT 138:73271
GΙ
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$$Q^{1}-Q^{2}-T^{0}-N$$
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 R^{1}
 R^{2}

Diamine compds. represented by the following general formula [I; wherein R1, R2 = H, HO, alkoxy; Q1 = each (un)substituted and (un)saturated 5 or 6-membered cyclic hydrocarbyl, 5 to 7-membered heterocyclyl, or bicyclic or tricyclic fused hydrocarbyl or heterocyclyl; Q2 = a single bond, (un)substituted and (un)saturated bivalent cyclic hydrocarbon, 5 to 7-membered heterocycle, or bicyclic or tricyclic fused hydrocarbon or heterocyclic group; Q5 = C1-8 alkylene, C2-8 alkenylene, (CH2)mCH2-A-CH2(CH2)n (wherein m, n = an integer of 0-3); A = O, N, S, SO, SO2, NH, ONH, NHNH, SNH, SONH, SO2NH; R3 and R4 are groups substituted on C, N, or S in the ring containing Q5 and are selected from H, HO, alkyl, alkenyl, alkynyl, halo, haloalkyl, cyano, cyanoalkyl, NH2, aminoalkyl, N-alkylaminoalkyl, N,N-dialkylaminoalkyl, acyl, acylalkyl, (un)substituted acylaminoalkyl, etc.; Q4 = each (un)substituted aryl, arylalkenyl, arylalkynyl, heteroaryl, or heteroarylalkenyl, each (un)saturated and (un)saturated bicyclic or

III

tricyclic fused hydrocarbyl or heterocyclyl; T0 = C0, thiocarbonyl; T1 = CO, SO2, CO-CO, N-(un) substituted CO-NR, C(:S)-CO-NR, CO-C(S)-NR, C(S)-C(:S)-NR (wherein R=H,HO, alkyl, alkoxy), etc.], salts thereof, solvates of the same, or N-oxides of the same are prepared The diamine compds. include N, N'-bis(heterocyclic acyl)-1, 2-cyclopropanediamine, -1,2-cyclobutanediamine, 1,2-cyclopentanediamine, -1,2-cyclohexanediamine, 1,2-cycloheptanediamine, -1,2-cyclooctanediamine, -tetrahydro-3,4furandiamine, -3,4-pyrrolidinediamine, -3,4-piperidinediamine, -tetrahydro-6-oxo-3,4-pyrandiamine, and -tetrahydro-3,4-thiopyrandiamine-1,1-dioxide derivs. These compds. are blood coagulation inhibitors and useful as preventives and/or remedies for thrombus or embolism including brain infarction, cerebral embolism, cardiac infarction, angina, pulmonary infarction, pulmonary embolism, Buerger's disease, deep venous thrombosis, disseminated intravascular coaquiation syndrome, thrombosis following artificial flap/joint replacement, thrombosis and re-obstruction following blood flow reconstruction, systemic inflammatory reaction syndrome (SIRS), multiple organ dysfunction syndrome (MODS), thrombosis during external circulation or blood coagulation during blood collection. Thus, 288 mg 2-(4-chloroanilino)-2-oxoacetic acid Et ester was dissolved in 8.0 mL THF, treated with 46 mg LiOH and 1.0 mL H2O, stirred at room temperature for 2 h, concentrated in dryness under reduced pressure to give 292 mg crude

RM

2-(4-chloroanilino)-2-oxoacetic acid lithium salt (II). II and N-[(1R,2S,5S)-2-amino-5-[(dimethylamino)carbonyl]cyclohexyl]-5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxamide (preparation given) were dissolved in 15 mL DMF and stirred with 164 mg 1-hydroxybenzotriazole hydrate and 251 mg 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride at room temperature for 64.5 h to give a cyclohexanediamine derivative

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N,N'-bis(heterocyclic acyl)cycloalkanediamine and heterocyclediamine derivs. as factor Xa and blood coagulation inhibitors for prevention and treatment of thrombus and embolism) 365993-88-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-28-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

● HC1

RN 365994-29-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-32-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylcyclopropyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-36-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-ethyl-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-05-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 480447-06-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methoxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 480447-07-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

IT 480452-51-5P 480452-52-6P 480452-53-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N,N'-bis(heterocyclic acyl)cycloalkanediamine and heterocyclediamine derivs. as factor Xa and blood coagulation inhibitors for prevention and treatment of thrombus and embolism)

RN 480452-51-5 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 480452-52-6 HCAPLUS

CN Thiazolo[5, 4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-

tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 480452-53-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-5-[2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:747751 HCAPLUS

DOCUMENT NUMBER: 135:303902

TITLE: Preparation of ethylenediamine and

1,2-cycloalkanediamine derivatives as inhibitors of

activated blood coagulation factor ${\tt X}$

INVENTOR(S): Yoshino, Toshiharu; Nagata, Tsutomu; Haginoya,

Noriyasu; Yoshikawa, Kenji; Kanno, Hideyuki;

Nagamochi, Masatoshi

PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 481 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	CENT I	NO.			KINI)	DATE		APPLICATION NO.						DATE			
	WO	2001	A1 200			.0011011 WO			2001-JP2945					20010405					
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	, BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
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			LT,	LU,	LV,	MA.	MD,	MG.	MK,	MN.	MW.	, MX,	MZ.	NO.	NZ,	PL,	PT,	RO,	
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	ΝО	2002	0047	66		А		2002	1128		NO 2	2002-	4766			2	0021	003	
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	US	2006	0040	09		A1		2006	0105		US 2	2005-	2178.	37		2	0050	902	
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												2001-					0010	405	
											US 2	2003-	2407	25	Ž	A3 2	0030	730	

OTHER SOURCE(S): MARPAT 135:303902

Compds. of the general formula (1): Q1-Q2-C0-N(R1)-Q3-N(R2)-T1-Q4 [R1, R2] = H, OH, alkyl, alkoxy; Q1 = (un) substituted and (un)saturated 5- to 6-membered cyclohydrocarbyl or heterocyclyl or bi- or tricyclic condensed heterocyclyl; Q2 = bond, linear or branched alkyl C1-6 alkylene, C2-6 alkenylene, or C2-6 alkynylene, N-alkyl-(un)substituted NH or NH(CH2)m, (un) substituted and (un) saturated divalent 5- to 6-membered cyclic hydrocarbon or heterocycle or bi- or tricyclic condensed heterocycle group; Q3 = CR5R6CR7R8 (wherein R5, R6, R7, R8 = H, H0, halo, haloalkyl, cyano, cyanoalkyl, acyl, acylalkyl, alkyl, alkenyl, alkynyl, alkoxy, alkoxyalkyl, hydroxyalkyl, CO2H, carboxyalkyl, etc.), Q (wherein Q5 = C1-8 alkylene or C2-8 alkenylene; R9 and R10 are substituted on the carbon atoms of the ring containing Q5 and represent H, OH, alkyl, alkenyl, alkynyl, halo, haloalkyl, cyano, cyanoalkyl, NH2, aminoalkyl, N-alkylaminoalkyl, etc.); Q4 = (un)substituted aryl, arylalkenyl, heteroaryl, or heteroarylalkenyl, (un) substituted and (un) saturated bi- or tricyclic condensed hydrocarbyl or condensed heterocyclyl; T1 = C0, S02] are prepared Also claimed are drugs which contain these compds. and are efficacious for thrombosis and embolism. Thus, (\pm) -cis-N1 (or N2)-[(5-chloroindol-2-yl)carbonyl]-4,4-(1,2-ethylenedioxy)-1,2-cycloalkanediamine was condensed with 5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carboxylic acid using 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride and

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1-hydroxybenzotriazole monohydrate in DMF at room temperature overnight to give
     (\pm)-cis-N1 (or N2)-[(5-chloroindol-2-y1)carbony1]-4,4-(1,2-
     ethylenedioxy)-N2 (or N1)-[(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-
     c]pyridin-2-yl)carbonyl]-1,2-cyclohexanediamine (II). II in vitro showed
     IC50 of 1.4 nM \mug/mL against human FXa.
ΤT
     365993-88-0P 365994-26-9P 365994-27-0P
     365994-28-1P 365994-29-2P 365994-30-5P
     365994-31-6P 365994-32-7P 365994-33-8P
     365994-34-9P 365994-35-0P 365994-36-1P
     365994-37-2P 365994-38-3P 365994-39-4P
     365994-40-7P 365994-41-8P 365994-42-9P
     365994-43-0P 365994-44-1P 365994-45-2P
     365994-46-3P 365994-47-4P 365994-48-5P
     365994-49-6P 365994-50-9P 365994-51-0P
     365994-52-1P 365994-53-2P 365994-54-3P
     365994-55-4P 365994-56-5P 365994-57-6P
     365994-58-7P 365994-59-8P 365994-60-1P
     365994-61-2P 365994-62-3P 365994-63-4P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of ethylenediamine and cycloalkanediamine derivs. as inhibitors
        of activated blood coagulation factor X for treatment of thrombosis and
        embolism)
     365993-88-0 HCAPLUS
RN
CN
     Thiazolo[5, 4-c]pyridine-2-carboxamide, N-[(1R, 2R)-2-[[(5-chloro-1H-indol-2-
     yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-,
     monohydrochloride, rel- (9CI) (CA INDEX NAME)
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Relative stereochemistry.

HC1

RN 365994-26-9 HCAPLUS
CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 365994-27-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-bromo-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-28-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-29-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-30-5 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(tetrahydro-2H-pyran-4-yl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-31-6 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-cyclopropyl-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-32-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylcyclopropyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-33-8 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2-[[[5-(1,1-dimethylethyl)-5,6-dihydro-4H-pyrrolo[3,4-d]thiazol-2-yl]carbonyl]amino]cyclopentyl]-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-34-9 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-(1,1-dimethylethyl)-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-35-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-36-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-ethyl-4,5,6,7-tetrahydro-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-37-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-(2-methoxyethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-38-3 HCAPLUS

CN Thiazolo[5,4-c]pyridine-5(4H)-acetic acid, 2-[[[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]amino]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-39-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-5(4H)-acetic acid, 2-[[[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]amino]carbonyl]-6,7-dihydro-, rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365994-40-7 HCAPLUS

CN Cyclopentanecarboxylic acid, 3-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]amino]-, methyl ester, monohydrochloride, (1R,3S,4S)-rel- (9CI) (CA INDEX NAME)

HC1

RN 365994-41-8 HCAPLUS

CN Cyclopentanecarboxylic acid, 3-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4[[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]amino], methyl ester, monohydrochloride, (1R,3R,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-42-9 HCAPLUS

CN Cyclopentanecarboxylic acid, 3-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4[[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]amino], (3R,4R)-rel- (9CI) (CA INDEX NAME)

RN 365994-43-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(methylamino)carbonyl]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-44-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(dimethylamino)carbonyl]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-45-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methylcyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-46-3 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-methylcyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-47-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(phenylmethoxy)cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365994-48-5 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-y1)carbonyl]amino]-4-(phenylmethoxy)cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, rel- (9CI) (CA INDEX NAME)

RN 365994-49-6 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-hydroxycyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-50-9 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-4-(acetyloxy)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, rel- (9CI) (CA INDEX NAME)

RN 365994-51-0 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-y1)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-52-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-y1)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

HC1

RN 365994-53-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-54-3 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-55-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-56-5 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

RN 365994-57-6 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 365994-58-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(2-hydroxy-1,1-dimethylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

● HCl

RN 365994-59-8 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-4[[(aminocarbonyl)oxy]methyl]-2-[[(5-chloro-1H-indol-2yl)carbonyl]amino]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.

RN 365994-60-1 HCAPLUS

CN Carbamic acid, dimethyl-, [(3R,4R)-3-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]amino]cyclopentyl]methyl ester, rel- (9CI) (CA INDEX NAME)

RN 365994-61-2 HCAPLUS

CN 4-Morpholinecarboxylic acid, [(3R,4R)-3-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]amino]cyclopentyl]methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365994-62-3 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4,4-bis(methoxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, monohydrochloride, rel- (9CI) (CA INDEX NAME)

HC1

RN 365994-63-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4,4-bis(hydroxymethyl)cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

embolism)
RN 365998-45-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

RN 365998-47-6 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-48-7 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-4,5,6,7-tetrahydro-5-methyl-, rel- (9CI) (CA INDEX NAME)

RN 365998-49-8 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-50-1 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, rel- (9CI) (CA INDEX NAME)

RN 365998-51-2 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-52-3 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R,4R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-[(phenylmethoxy)methyl]cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

RN 365998-53-4 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4-(hydroxymethyl)cyclopentyl]-5-[2-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-1,1-dimethylethyl]-4,5,6,7-tetrahydro-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 365998-54-5 HCAPLUS

CN Thiazolo[5,4-c]pyridine-2-carboxamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-4,4-bis[(phenylmethoxy)methyl]cyclopentyl]-4,5,6,7-tetrahydro-5-(1-methylethyl)-, rel- (9CI) (CA INDEX NAME)

THERE ARE 104 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT: 104 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

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ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:216668 HCAPLUS

DOCUMENT NUMBER: 142:297984

TITLE: Preparation of indole-2-carboxamide derivatives as

glycogen phosphorylase inhibitors

Bennett, Stuart Norman Lile; Simpson, Iain INVENTOR(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.			KIND DATE			APPLICATION NO.					DATE						
	WO 2005020985			A1 20050310			WO 2004-GB3620					20040825						
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NΙ,
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
			ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW
		RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
			ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
			EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
			SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,
			SN,	TD,	ΤG													
PRIO	RIORITY APPLN. INFO.:							1	GB 2003-20242					A 20030829				
											GB 2	004-	1800			A 2	0040	128

OTHER SOURCE(S): MARPAT 142:297984

GΙ

AB Title compds. represented by the formula I [wherein A = phenylene or heteroarylene; n = 0-2; m = 0-2; R1 = independently halo, NO2, CN, carbamoyl, etc.; R2R3 = (un)substituted heterocyclic ring; R4 = independently halo, OH, carboxy, etc.; with a proviso; and pharmaceutically acceptable salts or prodrugs thereof] were prepared as glycogen phosphorylase inhibitors (no data). For example, II was given in a multi-step synthesis starting from 5-chloroindole-2-carboxylic acid. I and their pharmaceutical compns. are useful as glycogen phosphorylase inhibitors for the treatment of disease states associated with increased glycogen phosphorylase activity (no data).

IT 597555-50-5P 847658-36-0P 847658-37-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-indenyl indole-2-carboxamide derivs. as glycogen phosphorylase inhibitors)

RN 597555-50-5 HCAPLUS

CN Carbamic acid, [(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 847658-36-0 HCAPLUS

CN Carbamic acid, [(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl](2-hydroxyethyl)-, (4-nitrophenyl)methyl ester (9CI)

(CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

RN 847658-37-1 HCAPLUS

CN Carbamic acid, [(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl][2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl]-, (4-nitrophenyl)methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:182625 HCAPLUS

DOCUMENT NUMBER: 142:261398

TITLE: Preparation of indole-2-carboxamide derivatives as

glycogen phosphorylase inhibitors

INVENTOR(S): Bennett, Stuart Norman Lile; Simpson, Iain;

Whittamore, Paul Robert Owen

PATENT ASSIGNEE(S): Astrazeneca Ab, Swed.; Astrazeneca Uk Limited

SOURCE: PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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    WO 2005019172
                                         WO 2004-GB3552
                        A1 20050303
                                                                  20040818
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            NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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                         A1
                                                                  20060209
PRIORITY APPLN. INFO.:
                                           GB 2003-19690
                                                               A 20030822
                                                               W 20040818
                                           WO 2004-GB3552
OTHER SOURCE(S):
                       MARPAT 142:261398
GΙ
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AB Title compds. represented by the formula I [wherein A = phenylene or heteroarylene; n = 0-2; m = 0-2; R1 = independently halo, NO2, CN, carbamoyl, etc.; R2, R3 = independently (halo)alkyl, CF3, hydroxyalkyl, etc.; R4 = independently halo, OH, carboxy, etc.; and pharmaceutically acceptable salts or prodrugs thereof] were prepared as glycogen phosphorylase inhibitors. For example, II \bullet HCl was given in a multi-step synthesis starting from 5-chloroindole-2-carboxylic acid. II showed 173 μ M thermodn. solubility and plasma protein binding activity with Ki value of 0.5 μ M. Thus, I and their pharmaceutical compns. are useful as glycogen phosphorylase inhibitors for the treatment of disease

states associated with increased glycogen phosphorylase activity. 846542-52-7P 846542-53-8P 846542-54-9P ΙT 846542-55-0P 846542-56-1P 846542-57-2P 846542-58-3P 846542-59-4P 846542-60-7P 846542-61-8P 846542-62-9P 846542-63-0P 846542-64-1P 846542-65-2P 846542-67-4P 846542-68-5P 846542-69-6P 846542-70-9P 846542-71-0P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of indole-2-carboxamide derivs. as glycogen phosphorylase inhibitors) RN 846542-52-7 HCAPLUS CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-1-[[(2S)-2,3-dihydroxy-1-[(2S)-2,3-[(2S)-2,3-[(2S)-2,3-[(2S)-2,3-[(2S)-2,3-[(2S)-2,3-[(2S)-2,3-[(2S)-2,3-[(2S)-2,3-[(2S)-2,3-[(oxopropyl]methylamino]-2,3-dihydro-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-53-8 HCAPLUS
CN 1H-Indole-2-carboxamide, N-[(1R,2R)-1-[[(2S)-2-amino-3-hydroxy-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-2,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethylaminol-3,3-dihydro-1-axopropyllmethyla

oxopropyl]methylamino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-,
monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

RN 846542-54-9 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-1-[[(2S)-2-(acetylamino)-3-hydroxy-1-oxopropyl]methylamino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-55-0 HCAPLUS

CN Pentanediamide, N1-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-2-hydroxy-N1-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-56-1 HCAPLUS

CN Pentanediamide, N1-[(1R,2R)-2-[[(5-fluoro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-2-hydroxy-N1-methyl-, (2S)- (9CI) (CA INDEX NAME)

RN 846542-57-2 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[[(2S)-2-hydroxy-3-methoxy-1-oxopropyl]methylamino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-58-3 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-2,3-dihydro-1-[[(2S)-2-hydroxy-3-methoxy-1-oxopropyl]methylamino]-1H-inden-2-yl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-59-4 HCAPLUS

CN Butanediamide, N1-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-2-hydroxy-N1-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-60-7 HCAPLUS

CN Butanediamide, N1-[(1R,2R)-2-[[(5-fluoro-1H-indol-2-y1)carbonyl]amino]-2,3-dihydro-1H-inden-1-y1]-2-hydroxy-N1-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-61-8 HCAPLUS

CN Butanediamide, N1-[(1R,2R)-2,3-dihydro-2-[(1H-indol-2-ylcarbonyl)amino]-1H-inden-1-yl]-2-hydroxy-N1-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-62-9 HCAPLUS

CN Butanediamide, N1-[(1R,2R)-2,3-dihydro-2-[[(5-methyl-1H-indol-2-yl)carbonyl]amino]-1H-inden-1-yl]-2-hydroxy-N1-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-63-0 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-2,3-dihydro-1-[[(2S)-2-hydroxy-1-oxobutyl]methylamino]-1H-inden-2-yl]-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-64-1 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-2,3-dihydro-1-[[(2S)-2-hydroxy-1-oxobutyl]methylamino]-1H-inden-2-yl]-5-fluoro- (9CI) (CA INDEX NAME)

RN 846542-65-2 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-2,3-dihydro-1-[[(2S)-2-hydroxy-1-oxobutyl]methylamino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-67-4 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R, 2R)-2, 3-dihydro-1-[[(2S)-2-hydroxy-1-oxobutyl]methylamino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-68-5 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-1-[[(2S)-2,3-dihydroxy-1-oxopropyl]methylamino]-2,3-dihydro-1H-inden-2-yl]-5-methyl- (9CI) (CA INDEX NAME)

RN 846542-69-6 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[(hydroxyacetyl)(2-hydroxyethyl)amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-70-9 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[(2-hydroxyethy1)[(2S)-2-hydroxy-1-oxobuty1]amino]-1H-inden-2-y1]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-71-0 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-1-[[(2R)-2,3-dihydroxy-1-oxopropyl]methylamino]-2,3-dihydro-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

IT 597555-50-5P 846542-72-1P 846542-74-3P 846542-78-7P 846542-79-8P 846542-80-1P

846542-81-2P 846542-82-3P 846542-83-4P 846542-84-5P 846542-85-6P 846542-88-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of indole-2-carboxamide derivs. as glycogen phosphorylase inhibitors)

RN 597555-50-5 HCAPLUS

CN Carbamic acid, [(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-72-1 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-1-[[[(4S)-2,2-dimethyl-1,3-dioxolan-4-yl]carbonyl]methylamino]-2,3-dihydro-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

RN 846542-74-3 HCAPLUS

CN Carbamic acid, [(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-78-7 HCAPLUS

CN Carbamic acid, [(1R,2R)-2-[[(5-fluoro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-79-8 HCAPLUS

CN Carbamic acid, [(1R,2R)-2,3-dihydro-2-[(1H-indol-2-ylcarbonyl)amino]-1H-inden-1-yl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 846542-80-1 HCAPLUS

CN Carbamic acid, [(1R,2R)-2,3-dihydro-2-[[(5-methyl-1H-indol-2-yl)carbonyl]amino]-1H-inden-1-yl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-81-2 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[methyl[[(2S)-tetrahydro-5-oxo-2-furanyl]carbonyl]amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-82-3 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-2,3-dihydro-1-[methyl[[(2S)-tetrahydro-5-oxo-2-furanyl]carbonyl]amino]-1H-inden-2-yl]-5-fluoro- (9CI) (CA INDEX NAME)

RN 846542-83-4 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[methyl[(2S)-oxiranylcarbonyl]amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 846542-84-5 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-2,3-dihydro-1-[methyl[(2S)-oxiranylcarbonyl]amino]-1H-inden-2-yl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

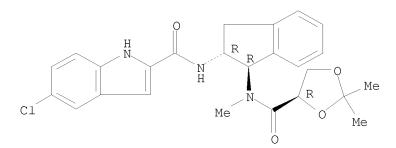
RN 846542-85-6 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[[(2S)-2-hydroxy-1-oxobutyl][2-[(tetrahydro-2H-pyran-2-yl)oxy]ethyl]amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

RN 846542-88-9 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-1-[[[(4R)-2,2-dimethyl-1,3-dioxolan-4-yl]carbonyl]methylamino]-2,3-dihydro-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:719447 HCAPLUS

DOCUMENT NUMBER: 139:245895

TITLE: Preparation of indolamide derivatives that possess

glycogen phosphorylase inhibitory activity

INVENTOR(S): Whittamore, Paul Robert Owen; Bennett, Stuart Norman

Lile; Simpson, Iain

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited

SOURCE: PCT Int. Appl., 90 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	KIN	D	DATE			APPLICATION NO.						DATE				
WO 2003074484			A1	_	2003	0912	WO 2003-GB883						20030304			
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	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,

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PRIORITY APPLN. INFO.:
                                            GB 2002-5176
                                                                W 20030304
                                            WO 2003-GB883
OTHER SOURCE(S):
                       MARPAT 139:245895
GΙ
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$$R^4m$$
 CO NH A R^1n

AΒ Heterocyclic amides of formula (I; 5-chloro-2-[N-(1-hydroxyindan-2yl)carbamoyl]indole; A is phenylene or heteroarylene; m is 0, 1 or 2; n is 0, 1 or 2; R1 = for example halo, nitro, cyano, hydroxy, carboxy; r is 1 or 2; Y is -NR2R3 or -OR3; R2 and R3 = for example H, hydroxy, aryl, heterocyclyl and C1-4 alkyl((un)substituted by 1 or 2 R8 groups); R4 = for example H, halo, nitro, cyano, hydroxy, C1-4 alkyl, and C1-4 alkanoyl; R8 = for example hydroxy, -COCOOR9, -C(O)N(R9)(R10), -NHC(O)R9, (R9)(R10)Nand -COOR9; R9 and R10 = for example H, hydroxy, C1-4alkyl((un)substituted by 1 or 2 R13); R13 = hydroxy, halo, trihalomethyl and C1-4 alkoxy) or a pharmaceutically acceptable salt or prodrug thereof are claimed. They possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity, e.g. type 2 diabetes, insulin resistance, syndrome X, hyperinsulinemia, hyperglucagonemia, cardiac ischemia, obesity. Inhibitory activity (IC50) of I in the direction of glycogen synthesis and on glycogen degradation were measure and are generally 100 μ M to 1 nM; 7.4 μ M for 5-chloro-N-[(1R,2R)-1-[[[(2hydroxyethyl)(phenylmethyl)amino]acetyl]amino]-2,3-dihydro-1H-inden-2-yl]-1H-indole-2-carboxamide in the latter assay. Processes for the manufacture of said heterocyclic amide derivs. and pharmaceutical compns. containing them are described. Thirty-seven example prepns. and/or characterization data for I and 11 for intermediates are included. For example, to prepare

5-chloro-2-[N-(trans-1-hydroxyindan-2-yl)carbamoyl]indole, 5-chloro-1H-indole-2-carboxylic acid (0.67 mmol) was dissolved in CH2Cl2 (10 mL) containing DIPEA (1.19 mmol) and trans-2-aminoindan-1-ol (0.67 mmol) and HATU (0.67 mmol); the reaction mixture was stirred at room temperature for .apprx.18 h; workup gave 100 % of the desired compound To prepare trans-2-aminoindan-1-ol, isoamyl nitrite (108 mmol) was added to a solution of indan-1,2-dione (90 mmol) in MeOH (380 mL) at 45° followed by concentrated HCl (12 mL) dropwise over 5 min; the reaction mixture was stirred

for

3 h at room temperature; workup gave indan-1,2-dione-2-oxime (43%), which (39 mmol) in EtOH (470 mL) and 4M HCl/dioxane (36 mL) was hydrogenated at room temperature and 40 psi; workup gave 86 % of the trans-2-aminoindan-1-ol.

IT 597554-89-7P, 5-Chloro-N-[(1R,2R)-1-(tert-

butoxycarbonylaminoacetamido)-2,3-dihydro-1H-inden-2-yl]-1H-indole-2-carboxamide 597554-91-1P, N-[(1R,2R)-1-[[(S)-3-[(tert-Rutoxycarbonyl)aminol-4-oxopontanoyl]aminol-2,3-dihydro-1H-indon-2-yl

 $\label{lem:butoxycarbonyl} Butoxycarbonyl) amino]-4-oxopentanoyl] amino]-2, 3-dihydro-1H-inden-2-yl]-5-chloro-1H-indole-2-carboxamide 597555-37-8P,$

 $\label{eq:n-local} $$N-[(1R,2R)-1-[N-(2-Acetoxyacetyl)-N-(carboxymethyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloroindole-2-carboxamide$

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of indolamide derivs. that possess glycogen phosphorylase inhibitory activity)

RN 597554-89-7 HCAPLUS

CN Carbamic acid, [2-[[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]amino]-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597554-91-1 HCAPLUS

CN Carbamic acid, [(1S)-1-acetyl-3-[[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]amino]-3-oxopropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 597555-37-8 HCAPLUS

CN Glycine, N-[(acetyloxy)acetyl]-N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

597554-79-5P, N-[(1R*,2R*)-1-[(2-Carboxyacetyl)amino]-2,3-dihydro-ΤТ 1H-inden-2-yl]-5-chloroindole-2-carboxamide 597554-83-1P, 5-Chloro-N-[(1R,2R)-1-[(3-methoxypropanoyl)amino]-2,3-dihydro-1H-inden-2v1]-1H-indole-2-carboxamide 597554-87-5P, N-[(1R,2R)-1-(Acetylamino)-2,3-dihydro-1H-inden-2-yl]-5-chloro-1H-indole-2-carboxamide 597554-93-3P, N-[(1R,2R)-1-[(2-Carbamoylacetyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloroindole-2-carboxamide 597554-95-5P, N-[(1R, 2R)-1-[(2-Carboxyacetyl)amino]-2, 3-dihydro-1H-inden-2-yl]-5chloroindole-2-carboxamide 597554-97-7P, 5-Chloro-N-[(1R, 2R)-1-[(hydroxyacetyl)amino]-2,3-dihydro-1H-inden-2-yl]-1H-indole-2-carboxamide 597554-98-8P, 5-Chloro-N-[(1R,2R)-1-[[3-hydroxy-2-(hydroxymethyl)propanoyl]amino]-2,3-dihydro-1H-inden-2-yl]-1H-indole-2carboxamide 597555-00-5P, N-[(1R, 2R)-1-[((3R)-3-Amino-3-P)]carbamoylpropanoyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloroindole-2carboxamide 597555-01-6P, N-[(1R,2R)-1-[((3R)-3-Amino-3-P)]carbamoylpropanoyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloroindole-2carboxamide trifluoroacetate 597555-02-7P 597555-03-8P , N-[(1R,2R)-1-[(Aminoacetyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-1H-inden-2-yl]indole-2-carboxamide trifluoroacetate 597555-08-3P, 5-Chloro-N-[1-[(hydroxyacetyl)amino]-2,3-dihydro-1H-inden-2-yl]-1H-indole-2-carboxamide 597555-11-8P, 5-Chloro-N-[(1R,2R)-1-[[[(2-1)]]) hydroxyethyl) (methyl) amino] acetyl] amino] -2, 3-dihydro-1H-inden-2-yl]-1Hindole-2-carboxamide 597555-12-9P, 5-Chloro-N-[(1R,2R)-1-[[[(2-

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hydroxyethyl)(phenylmethyl)amino]acetyl]amino]-2,3-dihydro-1H-inden-2-yl]-
1H-indole-2-carboxamide 597555-13-0P, 5-Chloro-N-[(1R,2R)-1-[[(3-1)^2])]
hydroxypiperidin-1-yl)acetyl]amino]-2,3-dihydro-1H-inden-2-yl]-1H-indole-2-
carboxamide 597555-14-1P, 5-Chloro-N-[(1R, 2R)-1-[[(3-1)])]
hydroxypyrrolidin-1-yl)acetyl]amino]-2,3-dihydro-1H-inden-2-yl]-1H-indole-
2-carboxamide 597555-15-2P, N-[(1R,2R)-1-[[[Bis(2-1)]])]
hydroxyethyl)aminolacetyllaminol-2,3-dihydro-1H-inden-2-yll-5-chloro-1H-
indole-2-carboxamide 597555-18-5P, N-[1-[(Aminoacetyl)amino]-2,3-
dihydro-1H-inden-2-yl]-5-chloro-1H-indole-2-carboxamide
597555-19-6P, N-[1-[((3S)-3-Amino-3-carboxypropanoyl)amino]-2,3-
dihydro-1H-inden-2-yl]-5-chloroindole-2-carboxamide 597555-28-7P
, N-[(1S,2S)-1-[Acetyl](2-thienyl)methyl]amino]-2,3-dihydro-1H-inden-2-yl]-
5-chloro-1H-indole-2-carboxamide 597555-30-1P,
N-[(1S,2S)-1-[N-Acetyl-N-(carboxymethyl)amino]-2,3-dihydro-1H-inden-2-yl]-
5-chloroindole-2-carboxamide 597555-31-2P, N-[(1S,2S)-1-[N-
Acetyl-N-[[2-(ethoxycarbonyl)cycloprop-1-yl]methyl]amino]-2,3-dihydro-1H-
inden-2-yl]-5-chloroindole-2-carboxamide 597555-32-3P,
N-[(1R, 2R)-1-[N-Acetyl-N-(carboxymethyl)amino]-2,3-dihydro-1H-inden-2-yl]-
5-chloroindole-2-carboxamide 597555-35-6P, N-[(1R,2R)-1-
[(Acetyl)(2-amino-2-oxoethyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-1H-
indole-2-carboxamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
   (drug candidate; preparation of indolamide derivs. that possess glycogen
   phosphorylase inhibitory activity)
597554-79-5 HCAPLUS
Propanoic acid, 3-[[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-
2,3-dihydro-1H-inden-1-yl]amino]-3-oxo-, rel- (9CI) (CA INDEX NAME)
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Relative stereochemistry.

RN

CN

RN 597554-83-1 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[(3-methoxy-1-oxopropyl)amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

RN 597554-87-5 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-1-(acetylamino)-2,3-dihydro-1H-inden-2-yl]-5-chloro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597554-93-3 HCAPLUS

CN Propanediamide, N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597554-95-5 HCAPLUS

CN Propanoic acid, 3-[[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]amino]-3-oxo-(9CI) (CA INDEX NAME)

RN 597554-97-7 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[(hydroxyacetyl)amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597554-98-8 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[[3-hydroxy-2-(hydroxymethyl)-1-oxopropyl]amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-00-5 HCAPLUS

CN Butanediamide, 2-amino-N4-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, (2R)- (9CI) (CA INDEX NAME)

RN 597555-01-6 HCAPLUS

CN Butanediamide, 2-amino-N4-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, (2R)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 597555-00-5 CMF C22 H22 C1 N5 O3

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 597555-02-7 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-1-[(aminoacetyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-(9CI) (CA INDEX NAME)

RN 597555-03-8 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-1-[(aminoacetyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 597555-02-7

CMF C20 H19 C1 N4 O2

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 597555-08-3 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[2,3-dihydro-1-[(hydroxyacetyl)amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

RN 597555-11-8 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[[[(2-hydroxyethy1)methylamino]acety1]amino]-1H-inden-2-y1]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-12-9 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[[[(2-hydroxyethyl)(phenylmethyl)amino]acetyl]amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-13-0 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[[(3-hydroxy-1-piperidinyl)acetyl]amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

RN 597555-14-1 HCAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-2,3-dihydro-1-[[(3-hydroxy-1-pyrrolidinyl)acetyl]amino]-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-15-2 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-1-[[[bis(2-hydroxyethyl)amino]acetyl]amino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-18-5 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[1-[(aminoacetyl)amino]-2,3-dihydro-1H-inden-2-

yl]-5-chloro- (9CI) (CA INDEX NAME)

RN 597555-19-6 HCAPLUS

CN L-Asparagine, N-[2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-28-7 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1S,2S)-1-[acetyl(2-thienylmethyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-30-1 HCAPLUS

CN Glycine, N-acetyl-N-[(1S,2S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

RN 597555-31-2 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-[[acetyl[(1S,2S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]amino]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-32-3 HCAPLUS

CN Glycine, N-acetyl-N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-35-6 HCAPLUS

CN 1H-Indole-2-carboxamide, N-[(1R,2R)-1-[acetyl(2-amino-2-oxoethyl)amino]-2,3-dihydro-1H-inden-2-yl]-5-chloro-(9CI) (CA INDEX NAME)

597555-09-4P, 5-Chloro-N-[1-[(iodoacetyl)amino]-2,3-dihydro-1H-ΙT inden-2-y1]-1H-indole-2-carboxamide 597555-10-7P, 5-Chloro-N-[(1R,2R)-1-[(chloroacetyl)amino]-2,3-dihydro-1H-inden-2-yl]-1Hindole-2-carboxamide 597555-33-4P, 1,1-Dimethylethyl 2-[acetyl[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]amino]acetate 597555-39-0P, 1,1-Dimethylethyl 2-[[(acetyloxy)acetyl][(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]amino]acetate 597555-46-9P, 5-Chloro-2-[N-[1-[[N-(1,1-dimethylethoxy)carbonyl]amino]indan-2yl]carbamoyl]indole 597555-50-5P, tert-Butyl [(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-y1]carbamate 597555-53-8P, tert-Butyl [(1S,2S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]carbamate RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of indolamide derivs. that possess glycogen phosphorylase inhibitory activity)

597555-09-4 HCAPLUS RN

CN 1H-Indole-2-carboxamide, 5-chloro-N-[2,3-dihydro-1-[(iodoacetyl)amino]-1Hinden-2-y1]- (9CI) (CA INDEX NAME)

597555-10-7 HCAPLUS RN

1H-Indole-2-carboxamide, 5-chloro-N-[(1R,2R)-1-[(chloroacetyl)amino]-2,3-CN dihydro-1H-inden-2-yl]- (9CI) (CA INDEX NAME)

RN 597555-33-4 HCAPLUS

CN Glycine, N-acetyl-N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-39-0 HCAPLUS

CN Glycine, N-[(acetyloxy)acetyl]-N-[(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-46-9 HCAPLUS

CN Carbamic acid, [2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 597555-50-5 HCAPLUS

CN Carbamic acid, [(1R,2R)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 597555-53-8 HCAPLUS

CN Carbamic acid, [(1S,2S)-2-[[(5-chloro-1H-indol-2-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

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